



## Biotinidase Deficiency

Biotinidase deficiency is an autosomal recessive disorder that interferes with the body's ability to synthesize biotin, a B vitamin. Biotinidase is an enzyme responsible for recycling biotin in the degradation of carboxylases, as well as freeing the protein bound form in digestion. Biotin is an essential co-factor in several metabolic pathways, the deficiency of which ultimately results in neurologic damage.

<b>Estimated Incidence (MI):</b>	1: 34,000 (includes profound and partial deficiencies)
<b>Laboratory Screening Test:</b>	Colorimetric assay used to detect enzyme activity
<b>Timing of Test:</b>	Valid at birth
<b>Feeding Effect:</b>	None
<b>Transfusion Effect:</b>	Transfusion of whole blood may interfere with the accuracy of testing, causing a false negative result. <b>Obtain newborn screen before transfusion.</b>
<b>Confirmation:</b>	All strong and persistent borderline positive tests are referred to the Pediatric Neurology metabolic Clinic (PNMC) for confirmation (734) 763-4697. <b>Do not send diagnostic labs before contacting the PNMC.</b>
<b>Treatment:</b>	Daily oral biotin supplement